



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Applicant: Lee Chow  
Serial No.: 10/084,688  
Filed: 2/27/02  
For: Fabrication of Nano-Scale Temperature Sensors and Heaters  
Examiner: Marianne L. Padgett  
Attorney Docket No.: UCF-293

**Commissioner of Patents and Trademarks**  
P.O. Box 1450  
Alexandria, VA 22313-1450

MAILED: 7/27/04

Honorable Commissioner:

I enclose the following papers:

1. Amendment Response and Arguments
2. Replacement Sheet for FIG. 4

Please enter the above correspondence.

Respectfully submitted,

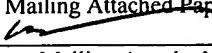
  
Brian S. Steinberger  
Attorney at Law  
PTO Registration No. 36,423  
101 Brevard Avenue  
Cocoa, Florida 32922  
(321) 633-5080 Facsimile (321) 633-9322

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CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below as First Class Mail, in an envelope addressed to the: Commissioner of Patents and Trademarks, P.O. Box 1450 Alexandria, VA 22313-1450.

7/27/04  
Date

Brian S. Steinberger  
(Name of Person Mailing Attached Papers)  
  
(Signature of Person Mailing Attached Papers)

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Alexandria, VA 22313-1450

**AMENDMENT UNDER '116**

Sir:

In response to the final office action mailed July 2, 2004 and the telephone interview on July 27, 2004, please amend the above-identified application as follows:

**Amendments to the Specification** are reflected in on page 2 of this paper.

**Amendments to the Claims** are reflected in the listing of claims, which begins on page 3 of this paper.

**Remarks/Arguments** begin on page 7 of this paper.

This paragraph change will replace all prior versions, and listings, in the application.

Page 2, line 25, add paragraphs as follows:

In preferred embodiments, the first metal nano sized strip and the second metal nano sized strip each can include a thickness(diameter) of approximately 50nm, and a bi-metal sensing junction therebetween that can include a cross-sectional area of approximately 50 X 50 nm<sup>2</sup>.

Further objects and advantages of this invention will be apparent from the following detailed description of the presently preferred embodiments which are illustrated schematically in the accompanying drawings.